

Patent Abstracts of Japan

PUBLICATION NUMBER : 08210171
PUBLICATION DATE : 20-08-96

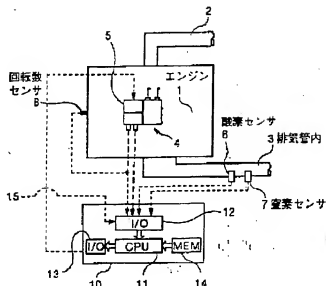
APPLICATION DATE : 03-02-95
APPLICATION NUMBER : 07039011

APPLICANT : KOMATSU LTD;

INVENTOR : SAKASAI TAKASHI;

INT.CL. : F02D 41/40 F01N 3/24 F02B 63/04
F02D 41/14 F02D 43/00 F02D 43/00
F02D 45/00 F02D 45/00

TITLE : EXHAUST EMISSION CONTROL
DEVICE FOR ENGINE



ABSTRACT : PURPOSE: To keep the nitrogen oxide concentration within a specified value and also to keep the engine rotating speed constant by measuring the oxygen content and the nitrogen oxide concentration to calculate the nitrogen oxide concentration in a normal oxygen concentration to be controlled to a proper nitrogen oxide concentration.

CONSTITUTION: An electronic control device.10 detects engine speed and the NOX concentration and O₂ concentration in exhaust gas after an engine is started, and computes the NOX concentration in a normal O₂ concentration according to the above data. It is judged whether the computed value of NOX is outside of the upper and lower limit values of a preset value or not, and if it is the preset upper limit value, the fuel injection timing is delayed. If it is the preset lower limit value, conversely the fuel injection timing is quickened. Even if the NOX concentration in exhaust gas of an engine is secured within a proper range, the injection timing is varied so that engine speed is outside of a normal range. If engine speed is the preset lower limit value, the injection quantity is automatically increased to increase engine speed. If it is the preset upper limit value, the injection quantity is decreased.

COPYRIGHT: (C)1996,JPO